SEQUENCE LISTING

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135

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Lys Val Ile Leu Leu Pro Asn Gln Thr His Tyr Ile Ile Pro Lys Gly 545 550 555 560

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565 570 575

Glu Gly Ala Tyr Ser Asp Asn Pro Ile Ile Arg His Ala Ser Ile Ala 580 585 590

Asn Lys Trp Lys Thr Ile His Leu Ile Met His Ser Gly Met Asn Ala 595 600 605

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Phe Lys Met Gln Ile Thr Val Glu Val Asp Thr Arg Glu Gly Pro Lys 625 630 635 640

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Phe Ala Phe Ser Tyr Phe Tyr Tyr Leu Met Ser Ala Val Gln Pro Leu 65 70 75 80

Asn Ile Ser Gln Val Phe Asp Glu Val Asp Thr Asp Gln Ser Gly Val 85 90 95

Leu Ser Asp Arg Glu Ile Arg Thr Leu Ala Thr Arg Ile His Glu Leu 100 105 110

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Pro Thr Gln Glu Ser Tyr Tyr Asp Pro Asn Leu Pro Pro Val Thr Lys 145 150 155 160

Ser Leu Val Thr Asn Cys Lys Pro Val Thr Asp Lys Ile His Lys Ala

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Tyr Lys Asp Lys Asn Lys Tyr Arg Phe Glu Ile Met Gly Glu Glu Glu 180 185 190

Ile Ala Phe Lys Met Ile Arg Thr Asn Val Ser His Val Val Gly Gln
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Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys 65 70 75 80

Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe 85 90 95

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Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala 145 150 155 160

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Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu 210 215 220

Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu 225 230 235 240

Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile 245 250 255

Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg 260 265 270

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Phe Asp Lys Thr Ser Phe His Lys Val Arg His Ser Glu Asp Met Gln 50 55 60

Phe Ala Phe Ser Tyr Phe Tyr Tyr Leu Met Ser Ala Val Gln Pro Leu 65 70 75 80

Asn Ile Ser Gln Val Phe His Glu Val Asp Thr Asp Gln Ser Gly Val 85 90 95

Leu Ser Asp Arg Glu Ile Arg Thr Leu Ala Thr Arg Ile His Asp Leu 100 105 110

Pro Leu Ser Leu Gln Asp Leu Thr Gly Leu Glu His Met Leu Ile Asn 115 120 125

Cys Ser Lys Met Leu Pro Ala Asn Ile Thr Gln Leu Asn Asn Ile Pro 130 135 140

Pro Thr Gln Glu Ala Tyr Tyr Asp Pro Asn Leu Pro Pro Val Thr Lys
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Ser Leu Val Thr Asn Cys Lys Pro Val Thr Asp Lys Ile His Lys Ala 165 170 175

Tyr Lys Asp Lys Asn Lys Tyr Arg Phe Glu Ile Met Gly Glu Glu Glu 180 185 190

Ile Ala Phe Lys Met Ile Arg Thr Asn Val Ser His Val Val Gly Gln
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Leu Asp Asp Ile Arg Lys Asn Pro Arg Lys Phe Val Cys Leu Asn Asp 215

Asn Ile Asp His Asn His Lys Asp Ala Arg Thr Val Lys Ala Val Leu 235 230 225

Arg Asp Phe Tyr Glu Ser Met Phe Pro Ile Pro Ser Gln Phe Glu Leu 245

Pro Arg Glu Tyr Arg Asn Arg Phe Leu His Met His Glu Leu Gln Glu 265 260

Trp Arg Ala Tyr Arg Asp Lys Leu Lys Phe Trp Thr His Cys Val Leu 280 275

Ala Thr Leu Ile Ile Phe Thr Ile Phe Ser Phe Phe Ala Glu Gln Ile 300 290

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Leu Gln Pro Lys Arg Glu Pro Ser Ala Val Ser Gly Pro Leu His Leu

Phe Arg Leu Ala Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys 70 75

Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe 90 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu 105 100 Ile Ile Asn Asn Thr Phe Lys Gly Met Trp Met Thr Asp Gly Asp Ser 120 115 Cys His Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Thr Cys Gly Lys 135 130 Ile Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala 145 150 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ser Leu Leu Val 170 Tyr Pro Thr Leu Ser Glu Ala Leu Gln Gln Arg Leu Asp Gln Val Glu Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly Tyr Glu Lys Leu Leu Arg Val Leu Phe Glu Asp Ala Gly Tyr Leu Lys Val Pro Gly Glu 215 Thr His Pro Thr Gln Leu Ala Gly Gly Ser Lys Gly Leu Gly Leu Glu Thr Leu Asp Asn Cys Arg Lys Ala His Ala Glu Leu Ser Gln Glu Val 245

Gln Arg Leu Thr Ser Leu Leu Gln Gln His Gly Ile Pro His Thr Gln 260 265 270

Pro Thr Glu Thr Thr His Ser Gln His Leu Gly Gln Gln Leu Pro Ile 275 280 285

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Asn Lys Gln Thr Lys Lys Asn Met Ser Ile Ser Gly Lys Glu Leu Ala 50 60

Ile Ser Pro Ala Tyr Leu Leu Trp Asp Leu Ser Ala Ile Ser Gln Ser 65 70 75 80

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Val Val Pro His Glu Val Leu Ala Pro Asp Pro Asp Gln Leu 50 55 60	Pro Thr
Phe Ser Ser Ala Ile Glu Thr Phe Leu His Arg Ile Pro 65 70 75	Lys Leu 80
Ser Lys Arg Phe Leu Tyr Leu Asn Asp Asp Ile Phe Leu Gly 85 90	Ala Pro 95
Leu Tyr Pro Glu Asp Leu Tyr Thr Glu Ala Glu Gly Val Arg 100 105 110	

Gln Ala Trp Met Val Pro Gly Cys Ala Leu Asp Cys Pro Trp Thr Tyr 115 120 125

Ile Gly Asp Gly Ala Cys Asp Arg His Cys Asn Ile Asp Ala Cys Gln Phe Asp Gly Gly Asp Cys Ser Glu Thr Gly Pro Ala Ser Asp Ala His Val Ile Pro Pro Ser Lys Glu Val Leu Glu Val Gln Pro Ala Ala Val Pro Gln Ser Arg Val His Arg Phe Pro Gln Met Gly Leu Gln Lys Leu Phe Arg Arg Ser Ser Ala Asn Phe Lys Asp Val Met Arg His Arg Asn Val Ser Thr Leu Lys Glu Leu Arg Arg Ile Val Glu Arg Phe Asn Lys Ala Lys Leu Met Ser Leu Asn Pro Glu Leu Glu Thr Ser Ser Glu Pro Gln Thr Thr Gln Arg His Gly Leu Arg Lys Glu Asp Phe Lys Ser Ser Thr Asp Ile Tyr Ser His Ser Leu Ile Ala Thr Asn Met Leu Leu Asn Arg Ala Tyr Gly Phe Lys Ala Arg His Val Leu Ala His Val Gly Phe Leu Ile Asp Lys Asp Ile Val Glu Ala Met Gln Arg Arg Phe His Gln Gln Ile Leu Asp Thr Ala His Gln Arg Phe Arg Ala Pro Thr Asp Leu Gln Tyr Ala Phe Ala Tyr Tyr Ser Phe Leu Met Ser Glu Thr Lys Val Met Ser Val Glu Glu Ile Phe Asp Glu Phe Asp Thr Asp Gly Ser Ala Thr Trp Ser Asp Arg Glu Val Arg Thr Phe Leu Thr Arg Ile Tyr Gln Pro Pro Leu Asp Trp Ser Ala Met Arg Tyr Phe Glu Glu Val Val

380 375 370

Gln Asn Cys Thr Arg Asn Leu Gly Met His Leu Lys Val Asp Thr Val 395 390 Glu His Ser Thr Leu Val Tyr Glu Arg Tyr Glu Asp Ser Asn Leu Pro Thr Ile Thr Arg Asp Leu Val Val Arg Cys Pro Leu Leu Ala Glu Ala 425 420 Leu Ala Ala Asn Phe Ala Val Arg Pro Lys Tyr Asn Phe His Val Ser 440 435 Pro Lys Arg Thr Ser His Ser Asn Phe Met Met Leu Thr Ser Asn Leu 455 450 Thr Glu Val Val Glu Ser Leu Asp Arg Leu Arg Arg Asn Pro Arg Lys 475 470 · 465 Phe Asn Cys Ile Asn Asp Asn Leu Asp Ala Asn Arg Gly Glu Asp Asn 490 485 Glu Asp Gly Ala Pro Ser 500 <210> 14 <211> 9792 <212> DNA <213> Mus musculus <400> 14 caggeteggg acttactata acacaggaca ettgteacet gaaagettga gteagteagt 60 tattatggtc tgtgtgtgag atacaagtgg gtgcataggc agtggtgcac acatgtagat 120 cagactttct acagccaatt ctcttcttcc tcctctccat gggttcaggg tcttcatctc 180 aggttgcaca gcgagttcat ttatgtgctg tgccatctcg ccagtcgttc ctatatccta 240 gaggaaaact agtttcttct ggtcaagagg aggaaagagt ggagacctgt cattctaaga 300 tacccaaaac agggccaggt tggggacctg tgcctttaat cccatcactt ggggattagg 360 tagaagcaag aggctctaga ccagtctaca cactgaattt caagccagcc tacctataaa 420 tcagagaccc tgcttcaaaa ataaaattaa acaaaaacga agataaacca agctacccaa 480 aacacaagag ttaatccagt cagacaggtc tagcaaatgc taggatgaaa ggtgtgcacc 540 accacgagtg ggctgcaagc ctctctctct ctctctctct ctctctctct ctcgtttgtt

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